

IN THE CLAIMS:

Please cancel claims 4 and 8 without prejudice or disclosure of the subject matter thereof.

The following is a complete listing of claims in this application.

1. (currently amended) A surface treating method of a titanium part, comprising the steps of:

determining an effective thickness of a hard oxide film to be formed on a surface of the titanium part;

determining an effective surface roughness of the hard oxide film; and

oxidation treating the surface of the titanium part under a desired treating temperature and a desired treating time such that both of the determined effective thickness and effective surface roughness are satisfied,

wherein the effective thickness is 14 micrometers or less, and the effective surface roughness is 3.0 Rz or less.

2. (original) A method as defined in claim 1, wherein the effective thickness of the film corresponds to a required hardness and is determined from a correlation of the hardness against the film thickness of the hard oxide film.

3. (original) A method as defined in claim 2, wherein the effective surface roughness of the film corresponds to the required hardness and is determined from a correlation of the hardness against the surface roughness of the hard oxide film.

Claim 4 (canceled).

5. (original) A method as defined in claim 1, wherein the desired treating temperature is 730 degrees C or less.

6. (currently amended) A method as defined in claim 1 further comprising the step of treating the surface of the titanium part after the oxidation treating step.

7. (currently amended) An engine valve treated by the

surface treating method as defined in claim 1, wherein the engine valve has a hard oxide film of thickness 14 micrometers or less and a surface roughness of 3.0 Rz or less.

Claim 8 (canceled).

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